

10/702414

CJ



Michael William Ferrell
4400 Fair Lakes Court
Suite 201
Fairfax, Virginia 22033-3899

FERRELLS, PLLC
A Virginia Professional Corporation
Practice Limited to Intellectual Property Matters

February 22, 2010

Telephone: 703-968-8600
Facsimile: 703-968-5500
E-mail: mike@ferrellaw.com
Website: www.ferrellaw.com

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Re: *Request for Certificate of Correction* for
United States Patent No. 7,300,547
Issued November 27, 2007
Phuong V. Luu et al.
Entitled *Absorbent Sheet Exhibiting
Resistance to Moisture*
Our Reference No. 12376 (GP-01-24)

Sir:

Attached hereto is a proposed *Certificate of Correction* in the above-noted patent, together with the attached section of the patent wherein the error is highlighted thereon.

Please issue a *Certificate of Correction* pursuant to 35 USC §254 to correct this mistake which was due to a typographical error and is believed appropriate subject matter for a *Certificate of Correction*.

Please charge the fee for the Certificate of Correction, i.e., \$100.00, to Deposit Account No. 50-0935. If additional fees are deemed necessary, please consider this a *Petition* therefor and charge any fees to Deposit Account No. 50-0935.

Respectfully submitted,

Michael Ferrell

Michael W. Ferrell
Reg. No. 31,158

Certificate

FEB 26 2010

of Correction

/crm

Attachments

CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)

Applicant(s): Phuong V. Luu et al.

Docket No.

12376 (GP-01-24)

Application No.

7,300,547

Filing Date

November 27, 2007

Examiner

Eric J. Hug

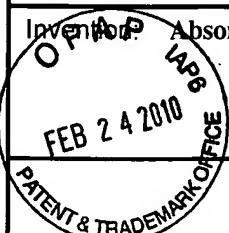
Customer No.

40256

Group Art Unit

1731

Invention: Absorbent Sheet Exhibiting Resistance to Moisture Penetration

I hereby certify that this Certificate of Correction, copy of face of issued patent & return postcard

(Identify type of correspondence)

is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on
February 22, 2010

(Date)

Carol R. Maddaloni

(Typed or Printed Name of Person Mailing Correspondence)

A handwritten signature in black ink that reads "Carol R. Maddaloni".

(Signature of Person Mailing Correspondence)

Note: Each paper must have its own certificate of mailing.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,300,547
APPLICATION NO. : 10/702,414
ISSUE DATE : November 27, 2007
INVENTOR(S) : Phuong V. Luu et al

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Change the Assignee's name on the face of the patent at (73) from "Georgia-Pacific Consumer Products LLC" to
-- Georgia-Pacific Consumer Products LP--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Michael W. Ferrell, Esq. - Reg. 31,158
Ferrells, PLLC
P.O. Box 312
Clifton, Virginia 20124-1706
Telephone: 703-968-8600; Facsimile: 703-968-5500

PATENT NO. 7,300,547

No. of additional copies

→ 0



US007300547B2

(12) **United States Patent**
Luu et al.

(10) **Patent No.:** US 7,300,547 B2
(45) **Date of Patent:** Nov. 27, 2007

(54) **ABSORBENT SHEET EXHIBITING
RESISTANCE TO MOISTURE
PENETRATION**

FOREIGN PATENT DOCUMENTS

EP 1 029 977 * 8/2000

(75) Inventors: **Phuong V. Luu**, Appleton, WI (US);
Steven L. Edwards, Fremont, WI (US);
David W. White, Clintonville, WI (US); **Brigitte K. Schauer**, North Canton, OH (US); **Martin A. Hynnek**, Appleton, WI (US)

(Continued)

(73) Assignee: **Georgia-Pacific Consumer Products LLC**, Atlanta, GA (US)

OTHER PUBLICATIONS

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 449 days.

(21) Appl. No.: 10/702,414

(22) Filed: Nov. 6, 2003

(65) **Prior Publication Data**

US 2004/0250969 A1 Dec. 16, 2004

Related U.S. Application Data

(60) Provisional application No. 60/424,434, filed on Nov. 7, 2002.

(51) **Int. Cl.**

D21H 19/18 (2006.01)
D21H 27/30 (2006.01)
D21H 27/40 (2006.01)

(52) **U.S. Cl.** 162/172; 162/112; 162/123;
162/136; 162/184

(58) **Field of Classification Search** 162/109-117,
162/123-125, 127, 132, 135-137, 172, 173,
162/179, 180, 183, 184; 428/152-154

See application file for complete search history.

(56) **References Cited**

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Fundamentals of Barrier Properties, Stannett, V.T. et al., Department of Chemical Engineering, North Carolina State University, Raleigh, North Carolina. (undated); and Smart Materials for Liquid Control, Non-Wovens World, Oct.-Nov. 1999, Dyrmose-Peterson, pp. 95-99.

Primary Examiner—Eric Hug

(74) *Attorney, Agent, or Firm*—Michael W. Ferrell

(57) **ABSTRACT**

An absorbent paper sheet is treated with an aqueous wax dispersion such that the sheet includes a fused wax and emulsifier residue in an amount of from about 1 to about 20 weight percent of the sheet based on the combined weight of the fiber, wax residue and an emulsifier residue in the sheet. The fused wax emulsion operates to make at least one surface of the sheet laterally hydrophobic, exhibiting a moisture penetration delay of at least about 2 seconds and less than about 40 seconds as well as a typical contact angle with water at one minute of at least about 50 degrees. There is thus provided absorbent products which exhibit both absorbency and resistance to moisture penetration. The treated sheet further exhibits microbial barrier properties, impeding transfer of bacteria, for example, through the sheet. There are produced tissue products which resist moisture penetration from propelled liquids as well as sequester sorbed liquids in the interior of the tissue.

20 Claims, 36 Drawing Sheets
(6 of 36 Drawing Sheet(s) Filed in Color)

